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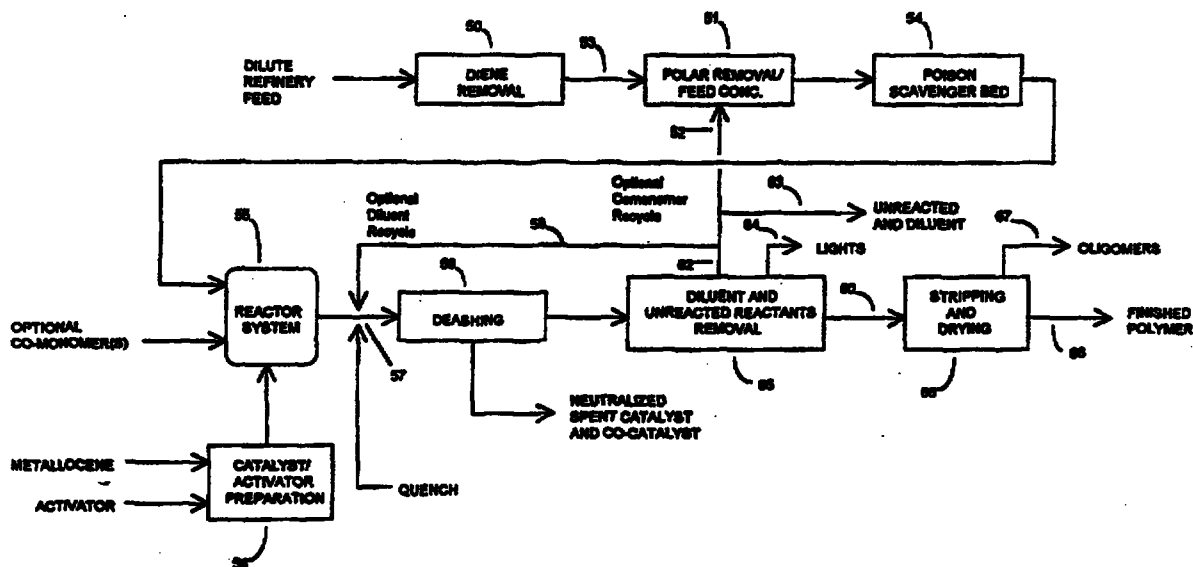
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(54) Title: DILUTE PROCESS FOR THE POLYMERIZATION OF NON-ETHYLENE  $\alpha$ -OLEFIN HOMOPOLYMERS AND COPOLYMERS USING METALLOCENE CATALYST SYSTEMS

## (57) Abstract

An improved process for the homopolymerization and copolymerization of  $\alpha$ -olefins utilizing highly dilute  $\alpha$ -olefin feedstreams to effect high conversions and catalyst efficiencies in the production of non-ethylene copolymers. The instant invention is particularly adaptable of polymerizing the  $\alpha$ -olefin content of commercially available refinery feedstreams such as Raffinate-2.

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